DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453

(707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.21

WELDING WITNESS REPORT

Resident Engineer: Pursell, Gary **Report No:** WWR-000102 Address: 333 Burma Road **Date Inspected:** 18-Jan-2007

City: Oakland, CA 94607

Project Name: SAS Superstructure **OSM Arrival Time:** 800 **OSM Departure Time:** 1700 Prime Contractor: American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

Witness:	Procedure Qualification Record			Welder Qualification		Fracture Critical	
	Weldi	ng NI	DΤ	Mechnical To	esting, describe:		
Index Lot #: B31-016-07				Witness Lot #: N/A			
Bridge No: 34-0006			Component:	N/A			
Welder: Zhu Hai Ping			ID #:	N/A			
Joint Descri	ption:	Non Standard		N/A	WPS ID #:	PWPS-B-T-3231-1	N/A
Base Metal:		ASTM A709	Gr HPS485W	N/A	PQR ID #:	HP2006126-3	N/A
Thickness:		75mm		N/A	Process:	FCAW-G	N/A
Electrode Spec/Class: A5.20/E71T1-1			N/A	Positions:	2F	N/A	
Backing Material:			N/A	CWI:	Liu Liu, Ching Li Bin	N/A	
Average Am	ps:	301.3		N/A	AWS Code:	D1.5-2002	N/A
Average Vol	ts:	29.1		N/A	Applicable Sec:	5.10	N/A
Travel Speed	d:	271.4mm/min		N/A	Heat Input:	1.94Kj/mm	N/A
Preheat:		160 C		N/A			

Summary of Items Observed:

The Caltrans Quality Assurance (QA) Inspector witnessed welding of a Procedure Qualification (PQR) test plate using gas shielded flux cored arc welding (FCAW-G) using Supercored 71H electrode, in the 2F (horizontal) position. The welding was performed per the AWS D1.5, 2002 Section 5.10 requirements. The welding appeared to comply with the contract documents. The PQR fillet weld test plate weld soundness test was performed in accordance with AWS D1.5-2002 paragraph 5.10.3 and the results were evaluated in accordance with AWS D1.5-2002 paragraph 5.19.3. Caltrans lot number B31-016-07 was assigned for tracking purposes.

Summary of Conversations:

At the completion of the welding the ZPMC QC inspector Mr. Liu Liu reported that the test plate was found to be acceptable in accordance with the contract documents.

is in general conformance with the contract requirements.

Observed welding, testing or results: is not in conformance with the contract requirements.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural

WELDING WITNESS REPORT

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Materials for your project.

Inspected By: Lanz,Joe Quality Assurance Inspector **Reviewed By:** Wright,Mark QA Reviewer